

Spray Booth Plan Review Requirements

Comm. 32.26 requires plans in quadruplicate and one set of specifications be submitted to the department for approval before the installation of any spray booth within all places of employment and public buildings of a public employer. The plans will be reviewed to show compliance with IBC 416, 903, 904, COMM 64 (HVAC) and NFPA 33 (Standard for Spray Application Using Flammable or Combustible Materials).

Drawing Standards

All drawings must be to a commonly recognized scale and the scale must be identified on the drawings. In accordance with standard drafting practice, important dimensions must also be indicated by value, i.e. feet and inches.

Drawing Contents

Drawings must contain at least the following:

- A site plan, showing the location of the building, the property lines, and the ventilation system. This is necessary to show compliance with COMM 64.19 requirements.
- A location plan showing where the booth is to be installed within the building. This plan does not need to replicate the entire building construction, but must indicate where the booth will be located in the building, and must identify any code issues relative to the booth location.
- Plan, section, elevation views drawings showing such items as: the spray booth; booth construction materials; plenums and ducts; exhaust and make-up air fans; make-up air unit; make-up air unit size in CFM and BTU.
- Suppression systems protecting the spray booth shall be identified. This includes the piping layout with sizes, hydraulic calculations and an equipment submittal for the system. A review will be done to ensure the domestic or dedicated fire protection water supply is adequate for the component and is piped in appropriately.
- Sequence of any emergency shutdown operations shall be identified.
- Coordination to any building fire alarm system shall be identified.
- All relevant sizes and dimensions of the spray booth and suppression system piping must be indicated.
- Calculations for exhaust and for make-up air.
- The manufacturer and model of the spray booth and its listing by a nationally recognized or department recognized testing laboratory.
- Any other relevant information needed to determine compliance with code requirements.